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(54) Title: ESTROGEN RECEPTOR ALPHA REGULATED GENE EXPRESSION, RELATED ASSAYS AND THERAPEUTICS

(57) Abstract: A plurality of genes modulated by estrogen or other agents, such as hormones or combinations of hormones, in various types of tissue is described. One embodiment of the disclosure relates to a plurality of genes, which demonstrates certain patterns of expression differing qualitatively or quantitatively, with and without exposure to estrogen and/or other hormone compositions. Methods of using these genes in identifying candidate agents that exert at least some of the biological effects of estrogen and/or other hormone, and pharmaceuticals and related therapies also is disclosed. The use of the plurality of genes in methods of monitoring, in gene chips and in kits also is disclosed.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11240

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/56; C12N 15/12; G01N 33/53

US CL : 435/7.2; 514/177; 536/23.5

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.2; 514/177; 536/23.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,508,164 A (KAUSCH et al.) 16 April 1996 (16.04.1996) see entire document.	1-59

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

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"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/11240

**Continuation of B. FIELDS SEARCHED Item 3:**  
**BRS**

search terms: genes, DNA, kidney, uterus, estrogen